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1 Routine/Function Prologues

1.0.1 clm_varder.F90 (Source File: *clm_varder.F90*)

Module to initialize clm variables

INTERFACE:

```
module clm_varder
```

USES:

```
use clmtype
use spmdMod

implicit none
!ARGUMENTS
type (clm1d), allocatable :: clm(:)
```

1.0.2 clm_varder_ini (Source File: *clm_varder.F90*)

Reads in runtime clm parameters, allocates memory for variables

INTERFACE:

```
subroutine clm_varder_ini(nch)
```

USES:

```
use infnan
use tile_spmdMod
use clm_varmap
use clm_varcon
use clm_varctl, only : clmdrv
use shr_orb_mod
use initializeMod, only : initialize
use clm2pardef_module
```

CONTENTS:

```
if(masterproc) then
    call readclm2crd(clmdrv)
endif
call def_clmpar_struct
call MPI_BCAST(clmdrv, 1, MPI_CLMDRV_STRUCT, 0, &
              MPI_COMM_WORLD, ier)
!-----
! allocate memory for clm derived type
!-----
if(masterproc) then
    allocate (clm(1:nch))
```

```

      print*, 'MSG: clm_varder_ini -- allocating clm',di_array(iam), &
            ', (',iam,')'
      call clm_varder_init(nch)
else
  begland = 1
  endland = di_array(iam)
  begpatch = 1
  endpatch = di_array(iam)
  print*, 'MSG: clm_varder_ini -- allocating clm',di_array(iam), &
            ', (',iam,')'
  allocate(clm(di_array(iam)))
endif
if(masterproc) then
  call shr_orb_params
endif
call MPI_BCAST(numpatch,1,MPI_INTEGER,0,&
               MPI_COMM_WORLD,ier)
call MPI_BCAST(eccen,1,MPI_REAL,0,&
               MPI_COMM_WORLD,ier)
call MPI_BCAST(obliqr,1,MPI_REAL,0,&
               MPI_COMM_WORLD,ier)
call MPI_BCAST(lambm0,1,MPI_REAL,0,&
               MPI_COMM_WORLD,ier)
call MPI_BCAST(mvelpp,1,MPI_REAL,0,&
               MPI_COMM_WORLD,ier)
#if ( defined OPENDAP )
  call initialize
#else
  if(masterproc) then
    call initialize
  endif
#endif

```

1.0.3 clm_varder_init (Source File: clm_varder.F90)

Initializes clm variables

INTERFACE:

```
subroutine clm_varder_init(nch)
```

USES:

```
use infnan
use tile_spmdMod
use clm_varmap
```